

Title (en)  
FREQUENCY-LOCKING METHOD, WIRELESS CHARGING SYSTEM, RECEIVING APPARATUS, AND SENDING APPARATUS

Title (de)  
FREQUENZ-VERRIEGELUNGSVERFAHREN, DRAHTLOSES LADESYSYSTEM, EMPFANGSGERÄT UND SENDEGERÄT

Title (fr)  
PROCÉDÉ DE VERROUILLAGE DE FRÉQUENCE, SYSTÈME DE CHARGE SANS FIL, APPAREIL DE RÉCEPTION ET APPAREIL D'ENVOI

Publication  
**EP 4080775 A1 20221026 (EN)**

Application  
**EP 20909132 A 20200611**

Priority

- CN 201911423486 A 20191231
- CN 2020095546 W 20200611

Abstract (en)  
This application provides a frequency locking method, a wireless charging system, a receiving device, and a transmitting device, to determine, through interaction between the receiving device and the transmitting device in a wireless charging scenario, whether a frequency locking procedure can be performed between the transmitting device and the receiving device. This improves system stability. The receiving device includes: a controller, configured to control short-circuiting of an input terminal of a rectifier; a transceiver, configured to transmit a frequency locking request to the transmitting device, where the frequency locking request carries information about a first preset range, and the frequency locking request is used to request the transmitting device to generate an emission current whose frequency is within the first preset range; a receiving module, configured to obtain an input current of the rectifier based on the emission current; and a detector, configured to detect a frequency of the input current when a current value of the input current is within a third preset range, where the transceiver is further configured to transmit frequency locking success information to the transmitting device when it is detected that the frequency of the input current is within the first preset range, where the frequency locking success information is used to indicate the transmitting device to maintain the emission current.

IPC 8 full level  
**H04B 1/54** (2006.01)

CPC (source: CN EP KR US)  
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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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KH MA MD TN

DOCDB simple family (publication)  
**EP 4080775 A1 20221026**; **EP 4080775 A4 20230412**; CN 113067598 A 20210702; CN 113067598 B 20221104; CN 115720005 A 20230228; JP 2023509051 A 20230306; JP 7347729 B2 20230920; KR 20220123080 A 20220905; US 2022337100 A1 20221020; WO 2021135078 A1 20210708

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